DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES Office of Structural Materials

Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 69.28

WELDING INSPECTION REPORT

Resident Engineer: Siegenthaler, Peter **Report No:** WIR-019102 Address: 333 Burma Road **Date Inspected:** 24-Dec-2010

City: Oakland, CA 94607

OSM Arrival Time: 700 **Project Name:** SAS Superstructure **OSM Departure Time:** 1900 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China

CWI Name: CWI Present: Yes Lv Li Qing No **Inspected CWI report:** Yes N/A **Rod Oven in Use:** Yes No No N/A N/A **Electrode to specification:** Yes No Weld Procedures Followed: Yes No N/A N/A **Qualified Welders:** Yes No **Verified Joint Fit-up:** Yes No N/A N/A Yes N/A **Approved Drawings:** Yes No **Approved WPS:** No Yes No N/A **Delayed / Cancelled:**

34-0006 **Bridge No: Component:** OBG

Summary of Items Observed:

On this date Caltrans OSM Quality Assurance (QA) Inspector, Nagalingam Pandaram Pillai was present during the times noted above for observations relative to the work being performed.

Ultrasonic Testing:-

BAY#14

This QA Inspector performed Ultrasonic testing (UT) of approximately 10% of the area previously tested and accepted by ZPMC Quality control personnel. This QA inspector generated a (UT) report for this date. The members are identified as OBG 13AW. The weld designation reviewed is as follows:

DP3120-001-009,013,016,019,022,025,028,241,244 DP3122-001-009,013,016,019,022,025,028,241,244

In process Inspection:-

BAY#14

This QA Inspector observed the following work in progress:

FCAW in the 3G position for the OBG Segment 14E Longitudinal Diaphragm to Floor Beam. The weld joint was designated as: SEG3019K-1-011. The welder is identified as #044824. ZPMC QC is identified as Mr. Zhong Guo

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Hui. The welding variables recorded by QC appear to comply with WPS-B-T-2233-ESAB.

This QA Inspector observed the following work in progress:

FCAW in the 2F position for the OBG Segment 13AE Bottom plate "I" rip. The weld joint was designated as: SEG3007Q-144/145. The welder is identified as #050242. ZPMC QC is identified as Mr. Wang Xu. The welding variables recorded by QC appear to comply with WPS-B-T-2132-ESAB.

This QA Inspector observed the following work in progress:

SMAW in the 2G position for the OBG Segment 14E Vertical Shear plate to Bottom plate. The weld joint was designated as: SEG3019BB-015. The welder is identified as #070007. ZPMC QC is identified as Mr. Zhong Guo Hui. The welding variables recorded by QC appear to comply with WPS-B-P-2212-TC-U4B-FCM-1.

This QA Inspector observed the following work in progress:

SMAW in the 2G position for the OBG Segment 14E Vertical Shear plate to Bottom plate. The weld joint was designated as: SEG3019BB-059. The welder is identified as #037997. ZPMC QC is identified as Mr. Zhong Guo Hui. The welding variables recorded by QC appear to comply with WPS-B-P-2212-TC-U4B-FCM-1. Please see the attached picture.

This QA Inspector observed the following work in progress:

FCAW in the 2F position for the OBG Segment 13CE Longitudinal Diaphragm Stiffener. The weld joint was designated as: SEG3011M-083. The welder is identified as #067103. ZPMC QC is identified as Mr. Zhong Yong Hong. The welding variables recorded by QC appear to comply with WPS-B-T-2132-ESAB.

This QA Inspector observed the following work in progress:

SMAW in the 3G position for the OBG Segment 13CE Side plate Stiffener. The weld joint was designated as: SEG3011K-127. The welder is identified as #068091. ZPMC QC is identified as Mr. Zhong Yong Hong. The welding variables recorded by QC appear to comply with WPS-B-P-2213-TC-U4B-FCM-1.

Visual Inspection after Blast

Cross Beam CB#15

This QA Inspector performed a preliminary random visual inspection after the grit blast of the Interior & Exterior components of this cross beam. Areas of visual weld defects that will require welding were taped and will be repaired after the coating is applied. ZPMC QC personnel are aware of these areas and were present during the inspection.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

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Summary of Conversations:

No Relevant Conversation.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang 150-0042-2372, who represents the Office of Structural Materials for your project.

Inspected By:	Pillai,Pandaram	Quality Assurance Inspector
Reviewed By:	Patel, Hiranch	QA Reviewer